# Project to Block Arctic Current Awakens Hope in Frozen Newfoundland

New England Too Would Get Milder Climate by Damming of Belle Isle Strait-Riker's Plan for Gigantic Jetty at Cape Race Is Recalled-Frigid-Waters Gaining Influence Over Gulf Stream.

oration of the somewhat imate of a part of our New The people of the conditions along our coast s their aim is to help themselves by the present free sweep of the Current southward through

been agitated, but the outetofore has loomed prohibionflict, we speak in billions hesitatingly mentioned mil-1914, and the public

By ROBERT G. SKERRETT. | such length and height has yet been Bank-an obstacle in the main of its erected. Further to the eastward, where the distance across is about andland may lead to a marked eighteen miles, the soundings show depths of 17, 20, 43 and 18 fathoms Cape Norman. Here the shallower water and more moderate currents with a wider interval to be closed, would make it easier to plant the obstruction. In either case, the enterprise would call for the expendi-

Millions in Land Values.

It is argued as an offset that the it breaks clear of the battleground climatic modifications, which would over the Grand Bank, is but a relabe effected by shutting out the Labrawould induce enormous not the first time that the agricultural increases and raise the its transforming warmth far into the lars Further, we are told that the exclusion of the Labrador Current To-day, because of the from the Gulf of St. Lawrence would permit the warm waters of the Gulf Stream to swing in nearer to the coast, thus tempering the cold months and making the St. Lawrence River as

but to a lesser extent, the Gulf Stream depths of 17, 20, 43 and 18 fathoms helped to upbuild from the south the across the Strait from Wreck Bay to great barrier which to-day brings the frigid waters of the arctic current and the warm flood from the tropics into of Newfoundland-robbing the Gulf Stream of the major part of its beneficent heat and modifying radically its further paths of travel.

We are authoritatively informed that the Gulf Stream, from the time river of the sea which used to carry realm where Jack Frost now dominates. Proof of this, some experts de clare, is given by the remains of tropical flora and fauna which have been

In the ages gone, we are told, the the Gulf navigable the year Labra lor Current probably dived into round. Logically, if these claims are the depths of the Atlantic, leaving the warranted, a portion of neighboring Gulf Stream to hold unimpeded sway surface of the deposit. The wave action upon the buoys will, to an extent, be transmitted to the anchor ropes and, by them, in a lesser degree o the obstructor." This intermittent the gathering sand, and thus continuholding the cable upon the crest of the accumulating mound.

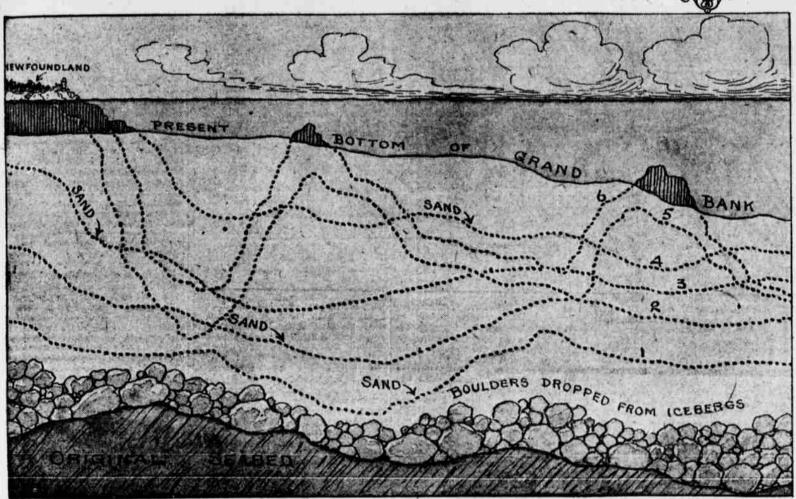
smooth and level. For one-eighth of question, are corroborative proof that the distance just east of Cape Race this Arctic flood is actually upon us. the bed is not so level, but apparently and at the rate of increase shown by

should be supported by buoys so that Banks can be stopped by its own de-they shall not become embedded in posits within two years from the plac- Current and have thus contributed the sand, and serve to prevent the ing in position of the obstructor. This the uprearing of the vast subaqueou natural upward movement of the objecty when completed would be just plateau contiguous to Newfoundian structor upon the top of the sand or south of the Virgin Rocks and the At the same time sands of polar origin other deposit as it forms—thereby in- East Rocks, and would seem to be but have swept south and stranded upon suring the unfettered vertical move- the resurrection of the Virgin Peninment of the obstructor as it is buoyed sula, apparently the original coastal make Cape Hatteras more hazardous up higher and higher by a rising formation thereabout at no very an-The wave cient period. "The United States Government

charts show an erosion or increased depth over great areas upon this site to have been one-third in less than tugging serving to break the grip of twenty years, equivalent to the re-the gathering sand, and thus continuhead reaching from New York to Chicago, through which clear space In elaborating his scheme, Mr. ice cold water is pouring along our "An obstructor may coast where none passed twenty years se of any form, and often should be previously, and which is increasing made to meet special conditions. Usu-ally the more flexible vertically the the climatic conditions along our Atgation by the best authorities that worse. The increasing coldness of the for about seven-eighths of the dis- waters in and about New York hartance to be traversed by the jetty the bor, and the more frequent and denser bottom would be almost perfectly fogs thereabout, of which there is no

the uprearing of the vast subaqueous and to force shipping further seaward his jetty will reverse these actions That is to say, the Jersey coastline wil be restored to its ancient contour and the sands now off Hatterns will be largely swept away.

The easterly winds which to-day se he surf digging into our beaches will be supplanted by westerly winds which in their turn will tend to create counter currents under water, and the latter will bring back to us the suband our headlands. By balking the Labrador Current at the Grand Bank and preventing its assault upon the Gulf Stream Mr. Riker is confident that the warm tide, then flowing un hampered into the Arctic zone, would serve to melt the ponderous ice which



tive benefits. Therefore the citizenry of Newfoundland is keen to construct frigid and intrusive arctic current.

# Interferes With Shipping.

It is into the Strait of Belle Isle that the Labrador Current so frequently drives great masses of field ice and lowering bergs to menace navigation during the spring and summer months when the glacial Northland releases these perils to shipping. At other times, the Labrador Current surges into the Gulf of St. Lawrence, chills rays of the northing sun. According to our hydrographic experts, describing the drift of ice and bergs in the grip of the Labrador Current:

"By the middle of January the shores of Newfoundland and Gulf of St Lawrence are full of ice which has been frozen there, and are opened er closed by a favorable or adverse Lawrence is closed about the middle November and does not open until ern coast of Newfoundland, while the arlier the field ice is replaced in the sea. Strait of Belle Isle by bergs."

Plainly, the arctic flood that enters the Gulf of St. Lawrence by way of the Strait of Belle Isle is one potent aid to the development of local ice by River to navigation for months when movement to and from the sea would be of great economic moment to Can-

and is anxious to seal the Strait of call and costly to build. The throat of gritty burden.

thus shut the door in the face of the Labrador Current. Seven years Carroll Livingston Riker of New York city, who has done notable things in the realm of hydraulic engineering. boldly proposed the building of a glant jetty projecting to the south and east from Cape Race directly across the main path of the southbound Labrador Current. In laying his scheme before Congress a year later Mr. Riker daimed that he could accomplish this amazing result at an expenditure of \$20,000,000! He purweeks vegetation's response to the posed effecting this by drawing upon to induce both the Gulf Stream and

lies on an average only something

# Piling Up for Centuries.

ciers, have moved from Greenland and outlet right into the Gulf of Mexico! elsewhere within the Arctic Circle The earthen and rocky freight of the Part of the Maritime Provinces the North have come within the warm

the Strait is in the neighborhood of Forteau Bay, where the span from shore to shore is ten miles. Even the soundings show depths ranging from 32 to 62 fathoms (192 and 372) has been forced more and more sur-

ditures. Thus we have come to look New England would be benefited more at and near the surface. In those degrees and 500 fathoms down still further ahead and thus to discount or less, the advent of spring being days the Gulf Stream in all likelihood registers 57 degrees, flows through the present heavy costs by their prospections and solver for the advent of spring being days the Gulf Stream in all likelihood registers 57 degrees, flows through the held closer to the continental shores "Narrows" at the rate of 20,000,000,-

great dam squarely across the of achieving radical benefits through like those which at present prevail in as an index of the heat accumulated throat of the Strait of Belle Isle and the balking of the present flow of Bermuda. And then the uprearing of there, a simple calculation will show alarming extent is seemingly denced by data supplied by the Gov- must be burned by us in the winter ernment's hydrographic investigations time to make up for the losses imwithin recent decades.

which it sends southward continuthe Labrador Current—especially the ously a vast volume of very cold water. latter-to rear a great sandy bulwark It is said that this passage furnishes right athwart its own present sweep. an easier outlet for the southern dis-While this sounds somewhat chimer- charge from the Arctic basin than ical, still there is much more of the does the opening into the Pacific by practicable in the proposal than may way of Behring Strait. That is to say, be apparent at first. The reasonable- more of the frigid flood now enters wind. Navigation in the River St. ness of Mr. Riker's assumption be- the Atlantic than was formerly the comes clearer if we pause to analyze case. Charts are extant which show the probable circumstances that have that the Cape Race Channel of the led to the gradual creation of the Labrador Current has deepened more west to southwest will clear the east- Grand Bank—that monster plateau of than one-third since 1877. As lately sand which rises from the bed of the as 1853 charts published by the United Atlantic Ocean 2,000 feet down, until States Coast and Geodetic Survey inof ice until the first of May. Even its widespread and nearly level crest dicated a movement of water from the Gulf until July, and by August or like 250 feet below the surface of the Ocean at a rate of one-half mile an contrary movement from the Pacific into the Arctic Ocean at the increased In the centuries gone the Labrador rate of two miles an hour. Logically Current has been draining from the Arctic Basin tremendous quantities of the must be a corresponding outlet; But this seemingly herculean task and official publications dated no fursand, which it has carried steadily ther back than 1908 warrant the conmonster icebergs, the offspring of gla- and thence by the Gulf Stream's very

gle monster river in the ocean, as the Belle Isle so as to keep away from a free when these derelicts of the frozen late Lieut. Matthew Fontaine Maury called it, which the Labrador Current, epressive effects of the Labrador Cur- waters of the Guif Stream south and through the agency of the Grand Just where the barrier will be east of Newfoundland. In dropping to Banks, has been able to set astray and reared is yet to be determined, be- the ocean floor they have fallen di-cause the hydrographic conditions in rectly astride the course of the sand have been offset by it disastrously? that waterway are such as would in- laden Labrador Current, thus inducing Lieut. Maury has said that the Gulf posited to effect the deposit of all the the latter to part with some of its Stream issues northward between

season modified for the better. from Cape Hatters northward, sta-,000 tons of water hourly. Lieut.

This Canadian project is scarcely bilizing climate conditions and make Maury further says. "Taking only more than a nibble into the problem ing the coastal seasons more nearly the difference in surface temperature the Grand Bank began until finally that the quantity of heat daily carthe Labrador Current insinuated itself ried off by the Gulf Stream from those between the continent and the Gulf regions and discharged over the At-Stream-oringing its Arctic chill next lantic is sufficient to raise mountains door to us and shoving further sea- of from from zero to the melting point, ward the northbound ocean river em- and to keep in flow from th anating from the Gulf of Mexico. And molten stream of metal greater in volthat the Labrador Current has been ume than the waters daily discharged steadily widening its foothold at an from the Mississippi River." Think, then, of the tons of coal that

LIVINGSTON

Contiguous to Cape Race the Lab- the Labrador Current! According to rador Current has scoured out a chan-nel about twenty miles wide and ap-Labrador Current averages about proximately 500 feet deep, through 50,000,000,000 cubic yards of water per hour. This is more than half that of the Gulf Stream where it passes out on its northern journey between Resays, "It would require the burning of more than 1,000,000 tons of coal per minute to heat this mass of ice water from 35 to 55 degrees." Conversely, the arctic current robs the Gulf Stream to that measure of its warmth and capacity to temper the atmesphere with which it is in contact,

### Now, to Count the Cost. The Riker project of constructing

barrier or peninsula of submerged sand reaching from Cape Race seaward for a distance of 200 miles, and having a width of forty miles at its coastal end and three miles broad at its outer extremity, would seem a simmers down to a relatively simple surface of the material that is de-

As to the character of this promoting agency Mr. Riker adds:

freeze early. This, quite apart from floes of ice, which have scoured the southward into Baffin Bay, with the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In considering the southward into Baffin Bay, with the obstructor. In consideri monster icebergs, the offspring of glamonster icebergs, the offspring of glawith asphaltum and weighted with
with asphaltum and weighted with
with asphaltum and seventh in the form of a great repe cable, or
the offspring of glamonster icebergs, the offspring of glawith asphaltum and weighted with
with asphaltum and weighted with
with asphaltum and seventh comes evident that it would form a upon the bottom, and having lesser sandbar that would continue to build in width and height until it reached the surface of the ocean. It only remains for man to place an obstruction mains for man to place an obstruction the deposit by virtue of its greater to the north of the site of the

strained vertical movement, to insure posed investigation will demonstrate "It is which it should be anchored by a the probability that at least three-hat this series of kedge anchors, at short in-quarters of the present flow of the the from 32 to 62 fathoms (192 and 372 has been forced more and more sur- a surface temperature in the winter- here proposed and submitted that this series of the present flow of the erosion continues. These stolen sands that as many as 20,000 people have has been forced more and more sur- a surface temperature in the winter- here proposed and submitted that this series of the present flow of the erosion continues. These stolen sands that as many as 20,000 people have has been forced more and more sur- a surface temperature in the winter- here proposed and submitted that this series of kedge anchors, at short in- quarters of the present flow of the erosion continues. These stolen sands that as many as 20,000 people have has been forced more and more sur- a surface temperature in the winter- here proposed and submitted that this series of kedge anchors, at short in- quarters of the present flow of the erosion continues. These stolen sands that as many as 20,000 people have has been forced more and more sur- a surface temperature in the winter- here proposed and submitted that this series of kedge anchors, at short in- quarters of the present flow of the erosion continues. These stolen sands that as many as 20,000 people have been forced more and more sur-

sand in sea water.

that shall maintain a position a few buoyancy—it being heavier than the inches above the constantly rising water, but very much lighter than ance at the bottom at one point may inaugurate a cut or movement by "This obstructor should be so an- the current amounting to millions of heavy matter that is in movement—
no interference in any way with the
current of the water above being required."

This obstructor should be so anthe current annutum Because of the has actually
yards of the bottom. Because of the robbed us of great tracts of our constal
region. Evidence of this exists to-day
ness to move on which now exists
entire length, and still have unrethere, I firmly believe that the prolong since disappeared before the

The like of woman's hairpin and the shoestring of the man.

With the aid of friendly nature, will pass through the crowd looking the man with want to reform and learners. enstruct this mighty dam.

# Thefts of Great Tructs of Coast.

The upbuilding of the Grand Bank in the course of time has actually gnawing attacks of the Atlantic's is lively indeed, hungry waves, and this process of It has been estimated by the police erosion continues. These stolen sands that as many as 20,000 people have hungry waves, and this process of

JETTY WOULD DO to the GULF STREAM and THE LABRADOR CURRENT. during the summer months. Imagine Greenland a region of smiland more far reaching benefits. HE four corners at West 125th

WHAT DAMMING the BELLEISLE STRAIT and BUILDING the RIKER

> sulting water would, in consequence move Equatorward, and the northern hemisphere would incline more direct. ly toward the sun, thereby promoting temperate climate where Jack Frost to-day holds sway, and incidentally hours of daylight further southward

ing fields and agricultural abundance And yet such is not unrealizable if Mr. Riker's jetty can arrest the present strife between the arctic and tropic floods off the coast of Newfoundland. Surely twen'y millions of dollars is a small price to pay for the blessings that may be born of this engineering proposal. At least the people of Newfoundland are keenly alive to the need of corrective action of some sort. The American project seems to offer vaster

# Harlem's Public Forum

street and Seventh avenue have become as famous for public meetings as the Common in Boston and noted spots in other large cities. In the summer season meetings are held there nightly at which hundreds of interested citizens are attentive The northwest corner is used almost

exclusively by the Home for Friendless Boys, of which Harry Clinton Eva is the leader. This philanthropic worker has been doing work for this institution at this corner for the past nineteen years. Large crowds listen and the financial help derived from the collections has been substantial. At the northeast corner the Social-

and Single Tax Edvocates hold forth. Some of these meetings at times have been stormy. Sometimes when the becklers came along to bait the speakers arrests were made iast few weeks the friends of the Irish Republic have used the corner when the Socialists have not held their meetings. The crowds at times have been so large that it has been necessary

into the fold by the army scouts who men who want to reform and lead a

better life. On the remaining corner, now that the campaign approaches, political speakers devoted to Democratic haranguers and the next night the Republicans will be heard. When all four corners are octhe cupied at once with meetings the scene

